## Agreement

Concerning the Adoption of Harmonized Technical United Nations Regulations for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these United Nations Regulations*
(Revision 3, including the amendments which entered into force on 14 September 2017)

## Addendum 74 - UN Regulation No. 75

## Revision 2 - Amendment 6

Supplement 19 to the original version of the Regulation - Date of entry into force: 30 September 2021

## Uniform provisions concerning the approval of pneumatic tyres for Lcategory vehicles

This document is meant purely as documentation tool. The authentic and legal binding text is: ECE/TRANS/WP.29/2021/6.


## UNITED NATIONS

[^0]Paragraph 2.5.1., delete the reference to footnote 1.
Paragraph 2.5.2., amend to read:
"2.5.2. $\quad$ Bias belted" describes a tyre structure in which the ply cords that extend to the beads are laid at alternate angles of substantially less than $90^{\circ}$ to the centre line of the tread, the structure being restricted by a belt comprising one or more layers of substantially inextensible cord material."

Paragraph 2.5.3., delete the reference to footnote 1 and amend to read:
"2.5.3. $\quad$ Radial" or "radial-ply" describes a tyre structure in which the ply cords extend to the beads and are laid substantially at $90^{\circ}$ to the centreline of the tread, the carcass being stabilized by an essentially inextensible circumferential belt."

Footnote 1, delete.
Paragraph 2.5.4., renumber as 2.6.
Paragraphs 2.6. to 2.18., renumber as 2.7. to 2.19., respectively.
Paragraph 2.19., renumber as 2.20. and amend to read:
"2.20. "Tyre-size designation" is for the tyre sizes listed in Annex 5 of this Regulation the designation shown in the first column of the tables in Annex 5 and for other tyre sizes a designation showing:"

Paragraph 2.19.1., renumber as 2.20.1. and amend to read:
"2.20.1. The nominal section width (S1), which must be expressed in mm;"
Paragraph 2.19.2., renumber as 2.20.2. and amend to read:
"2.20.2. The nominal aspect ratio;"
Insert new paragraphs 2.20.3. to 2.20.3.3. to read:
"2.20.3. An indication of the structure as follows:
2.20.3.1. "-" or the letter "D" for diagonal (bias-ply) tyres,
2.20.3.2. The letter " B " for bias-belted tyres;
2.20.3.3. The letter " R " for radial-ply tyres;"

Paragraphs 2.19.3. and 2.19.3.1., renumber as 2.20.5. and 2.20.5.1.
Paragraph 2.19.4., delete.
Add a new paragraph 2.20.6. to read:
"2.20.6. The suffix "M/C" for tyres intended to be fitted on rims designed for motorcycles; this suffix is mandatory for tyres having a nominal rim diameter equivalent to code $13(330 \mathrm{~mm})$ or above and optional for tyre sizes listed in Annex 5."

Paragraphs 2.20. to 2.31., renumber as 2.21. to 2.32., respectively.
Paragraph 2.31.1., renumber as 2.32.1. and amend to read:
"2.32.1. The speeds expressed by the speed category symbol as shown in the table in paragraph 2.32.2. below."

Paragraph 2.31.2., renumber as 2.32.2.
Paragraph 2.31.3., renumber as 2.20.4. and amend to read:
"2.20.4. In front of the indication of the structure the letter code " V " for tyres suitable for maximum speeds in excess of $240 \mathrm{~km} / \mathrm{h}$ but below $270 \mathrm{~km} / \mathrm{h}$ and the letter code "Z" for tyres suitable for maximum speeds of $270 \mathrm{~km} / \mathrm{h}$ or above; the indication of the structure as "-" for diagonal (bias-ply) tyres may be omitted in this case;"

Paragraph 2.32., renumber as 2.33. and amend to read:
"2.33. "Snow tyre" means a tyre whose tread pattern and whose structure are primarily designed to ensure in mud and fresh or melting snow a performance better than that of a normal tyre with regard to its ability to initiate or maintain vehicle motion."

Paragraphs 2.33. to 2.34., renumber as 2.34. to 2.35 .
Paragraph 2.35., renumber as 2.36. and amend to read:
"2.36. "Motorcycle tyre" means a tyre designed primarily for the equipment of motorcycles (categories $\mathrm{L}_{3}, \mathrm{~L}_{4}$ and $\mathrm{L}_{5}$ ). However, they may also equip mopeds (categories $\mathrm{L}_{1}$ and $\mathrm{L}_{2}$ ) and light trailers (category $\mathrm{O}_{1}$ )."

Paragraph 2.36., renumber as 2.37 .
Paragraph 2.36.1., renumber as 2.37.1. and amend to read:
"2.37.1. For speeds lower or equal to $130 \mathrm{~km} / \mathrm{h}$, the maximum load rating must not exceed the percentage of the value associated with the relevant load capacity index of the tyre as indicated in the table "Tyre load capacities at various speeds" (see Annex 8) with reference to the speed category symbol of the tyre and the speed capability of the vehicle to which the tyre is fitted."
Paragraphs 2.36.2. to 2.37., renumber as 2.37.2. to 2.38., respectively.
Insert a new paragraph 2.39. to read:
"2.39. "Service description" means the association of the load index with a speed category symbol (for example, 72 H );"

Paragraph 3.1.4. and its subparagraphs, amend to read:
"3.1.4. Optionally, an indication of the structure as follows:
3.1.4.1. On bias-belted tyres, the words "BIAS-BELTED";
3.1.4.2. On radial-ply tyres, the word "RADIAL";"

Paragraph 3.1.5., amend to read:
"3.1.5. A service description;"
Paragraph 3.1.6., delete.
Paragraphs 3.1.7. to 3.1.12., renumber as 3.1.6. to 3.1.11., respectively.
Paragraphs 3.1.13. and 3.1.14., delete.
Paragraph 3.1.15., renumber as 3.1.5.1. and amend to read:
"3.1.5.1. For tyres suitable for speeds above $240 \mathrm{~km} / \mathrm{h}$ but below $270 \mathrm{~km} / \mathrm{h}$ and identified with the letter code " $V$ " within the size designation, the service description shall be marked within parenthesis and shall consist of the loadcapacity index applicable at a speed of $210 \mathrm{~km} / \mathrm{h}$ and the speed category symbol."
Paragraph 3.1.16., renumber as 3.1.5.2. and amend to read:
"3.1.5.2. For tyres suitable for speeds above $270 \mathrm{~km} / \mathrm{h}$ and identified with the letter code " $Z$ " within the size designation, the service description shall be marked within parenthesis and shall consist of the load-capacity index applicable at a speed of $240 \mathrm{~km} / \mathrm{h}$ and the speed category symbol."

Paragraph 3.1.17., renumber as 3.1.12.

Paragraph 3.4., amend to read:
"3.4. The markings referred to in paragraph 3.1. and the approval mark prescribed in paragraph 5.4. of this Regulation shall be clearly legible, indelible and raised above or sunk below the tyre surface."

Insert a new paragraph 3.4.1. to read:
"3.4.1. In the case that the date of manufacture is not moulded, it shall be applied not later than 24 hours after the tyre is removed from the mould."

Paragraph 4.1.14., amend to read:
"4.1.14. The factor X referred to in paragraph 2.23.;"
Paragraph 4.1.16., amend to read:
"4.1.16. For all terrain (AT) tyres, the symbol identifying the reference inflation pressure (see paragraph 3.1.12.)."

Paragraph 4.2., amend to read:
"4.2. The application for approval shall be accompanied (all in triplicate) by a sketch, or a representative photograph, which identify the tyre tread pattern and a sketch of the envelope of the inflated tyre mounted on the measuring rim showing the relevant dimensions (see paragraphs 6.1.1. and 6.1.2.) of the type submitted for approval. It shall also be accompanied either by the test report issued by the approved test laboratory or by one or two samples of the type of tyre, at the discretion of the Type Approval Authority. Drawings or photographs of the side wall and tread of the tyre shall be submitted once production has been established, no later than one year after the date of issue of the type approval."

Paragraph 5.2., amend to read:
"5.2. An approval number shall be assigned to each type approved. Its first two digits (at present 00 ) shall indicate the series of amendments incorporating the most recent major technical amendments made to the Regulation at the time of issue of the approval. The same Contracting Party shall not assign the same number to another type of tyre covered by this Regulation."

Paragraph 6.1.2.1., amend to read:
"6.1.2.1. The outer diameter of a tyre shall be obtained by means of the following formula:

$$
\mathrm{D}=\mathrm{d}+2 \mathrm{H}
$$

Where
D is the outer diameter expressed in millimetres;
d is the nominal rim diameter defined in paragraph 2.20 .5 . expressed in millimetres;

H is the nominal section height rounded to the nearest millimetre and is equal to
$\mathrm{H}=\mathrm{S}_{1} \cdot 0.01 \mathrm{Ra}$, where
$\mathrm{S}_{1}$ is the nominal section width in millimetres;
Ra is the nominal aspect ratio;
all as shown on the sidewall of the tyre in the tyre-size designation in conformity with the requirements of paragraph 3.4. above."

Paragraph 6.2.1.1., amend to read:
"6.2.1.1. Where application is made for tyres identified by means of letter code "V" within the size designation and suitable for speeds over $240 \mathrm{~km} / \mathrm{h}$ or for tyres identified by means of letter code " Z " within the size designation and suitable for speeds over $270 \mathrm{~km} / \mathrm{h}$ (see paragraph 4.1.15.), the above load/speed test is carried out on one tyre at the load and speed conditions marked within parenthesis on the tyre (see paragraphs 3.1.5.1. and 3.1.5.2.). Another load/speed test must be carried out on a second tyre of the same type at the load and speed conditions, if any, specified as maximum by the tyre manufacturer (see paragraph 4.1.15.). For tyres identified by means of letter code "V" within the size designation and suitable for speeds over $240 \mathrm{~km} / \mathrm{h}$, the maximum load specified by the manufacturer shall not exceed the maximum load rating indicated in paragraph 2.37.4. with reference to the maximum speed specified by the manufacturer."
Paragraph 6.2.3., amend to read:
"6.2.3. Except for tyres with radial structure, the outer diameter of the tyre, measured at least six hours after the load/speed performance test, must not differ by more than $\pm 3.5$ per cent from the outer diameter as measured before the test."

## Insert a new paragraph 12.4. to read:

"12.4. Until 3 months after the date of entry into force of Supplement 19 to the original version of this Regulation, Contracting Parties applying this Regulation may continue to grant and/or extend type approvals according to the original version of this Regulation, without taking into account the provisions of Supplement 19."
Annex 2, amend to read:


## 75 R-002439 ฟa/3

The above approval mark affixed to a tyre shows that the type of tyre concerned has been approved in the Netherlands (E 4) pursuant to UN Regulation No. 75 under approval number 002439. The first two digits of the approval number indicate that the approval was granted in accordance with the requirements of UN Regulation No. 75 in its original form.
..."
Annex 3
Paragraph (d), amend to read:
(d) In case of tyres suitable for speeds above $240 \mathrm{~km} / \mathrm{h}$ the letter code "V" or " Z " as applicable, must be marked in front of the marking of structure
(e.g. 140/60ZR18). The reference load capacity index and speed category symbol must be marked within parenthesis as applicable (see paragraphs 3.1.5.1. and 3.1.5.2.)."

## Annex 7

Paragraph 2.2.2., amend to read:
"2.2.2. The maximum load rating associated with a maximum speed of $240 \mathrm{~km} / \mathrm{h}$ for tyres with speed symbol "V" (see paragraph 2.37.3. of this Regulation);"
Paragraph 2.2.3., amend to read:
"2.2.3. The maximum load rating associated with a maximum speed of $270 \mathrm{~km} / \mathrm{h}$ for tyres with speed symbol "W" (see paragraph 2.37.5. of this Regulation);"

Paragraph 2.2.5., renumber as 2.2.4.
Paragraph 2.4., amend to read:
"2.4. During the test the temperature in the test room must be maintained between $20^{\circ} \mathrm{C}$ and $30^{\circ} \mathrm{C}$ or at a higher temperature if the manufacturer so agrees."

Paragraph 2.5.2., amend to read:
"2.5.2. Initial test speed: $30 \mathrm{~km} / \mathrm{h}$ less than the speed corresponding to the speed category symbol marked on the tyre if a 2.0 m diameter test drum is used, or $40 \mathrm{~km} / \mathrm{h}$ less if a 1.7 m diameter test drum is used;"

Paragraph 2.5.2.1., delete.
Paragraph 2.5.6.1., delete.
Paragraph 2.6., amend to read:
"2.6. However, in case a second test is performed to assess the top performances of tyres suitable for speeds above $240 \mathrm{~km} / \mathrm{h}$ and whose service description is marked in parentheses (see paragraphs 3.1.5.1. and 3.1.5.2. of this Regulation) the procedure shall be the following:"


[^0]:    * Former titles of the Agreement:

    Agreement concerning the Adoption of Uniform Conditions of Approval and Reciprocal Recognition of Approval for Motor Vehicle Equipment and Parts, done at Geneva on 20 March 1958 (original version); Agreement concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions, done at Geneva on 5 October 1995 (Revision 2).

